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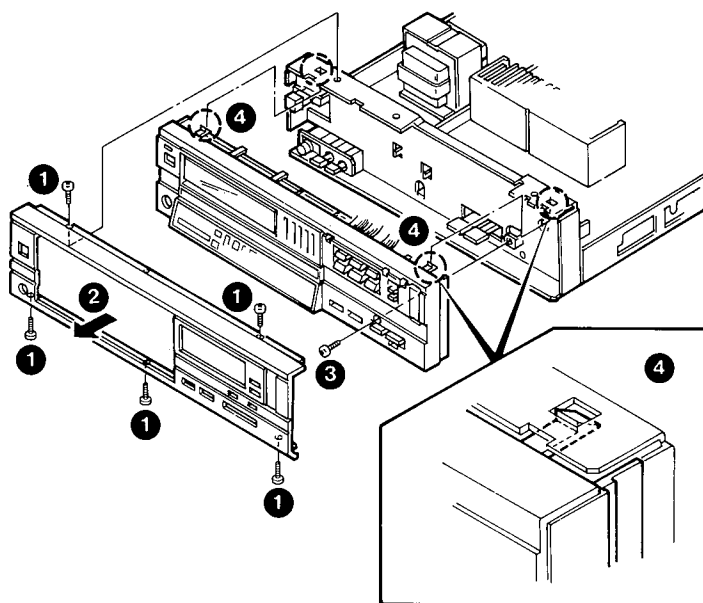
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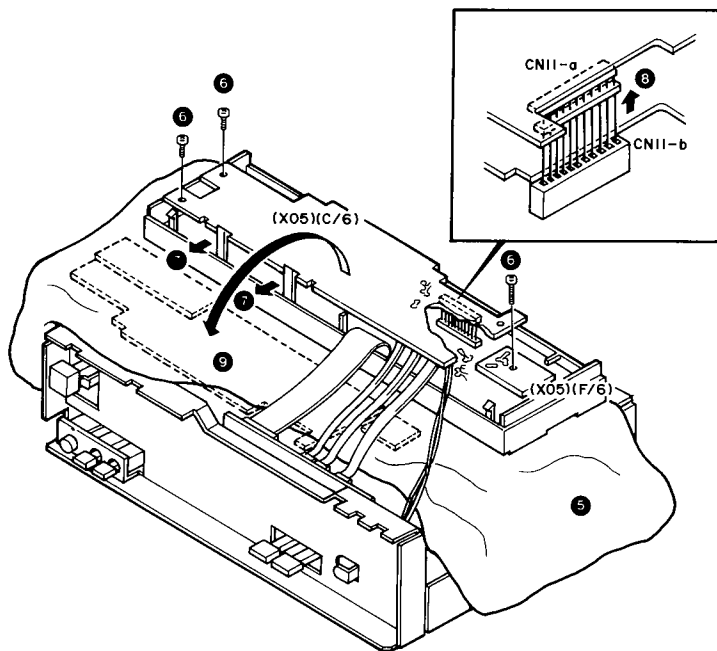
## DISASSEMBLY FOR REPAIR

(Remove the metallic cabinet before performing the following operations.)

1. Remove the 6 screws fixing the front panel to the sub panel (1).
2. Pull the front panel toward to arrow direction (2).
3. Remove the screw fixing the sub panel to the frame (3).
4. Disengage the sub panel from the 2 claws carefully (4).

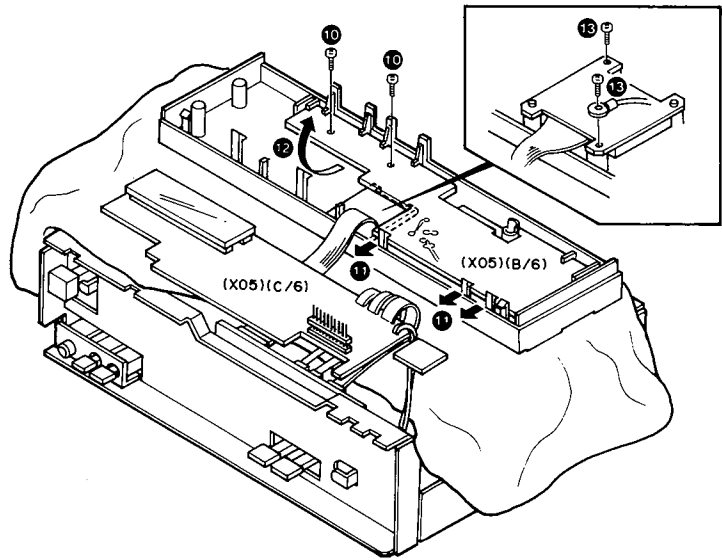


5. Place a cloth, or something equivalent to avoid damages to the front of the front panel (5).
6. Remove the 3 screws fixing the Tuner Unit (X05-3370-10)(C/6, F/6) to the sub panel (6).
7. Disengage the 2 claws fixing the Tuner Unit (X05-)(C/6)(7).
8. Disconnect the connector (CN11-a,b) which have been connected to the Audio Unit (X05-)(C/6) and (X05-)(B/6)(8).
9. Turn the Audio Unit (X05-)(C/6) and place this unit in the direction of the arrow (9).

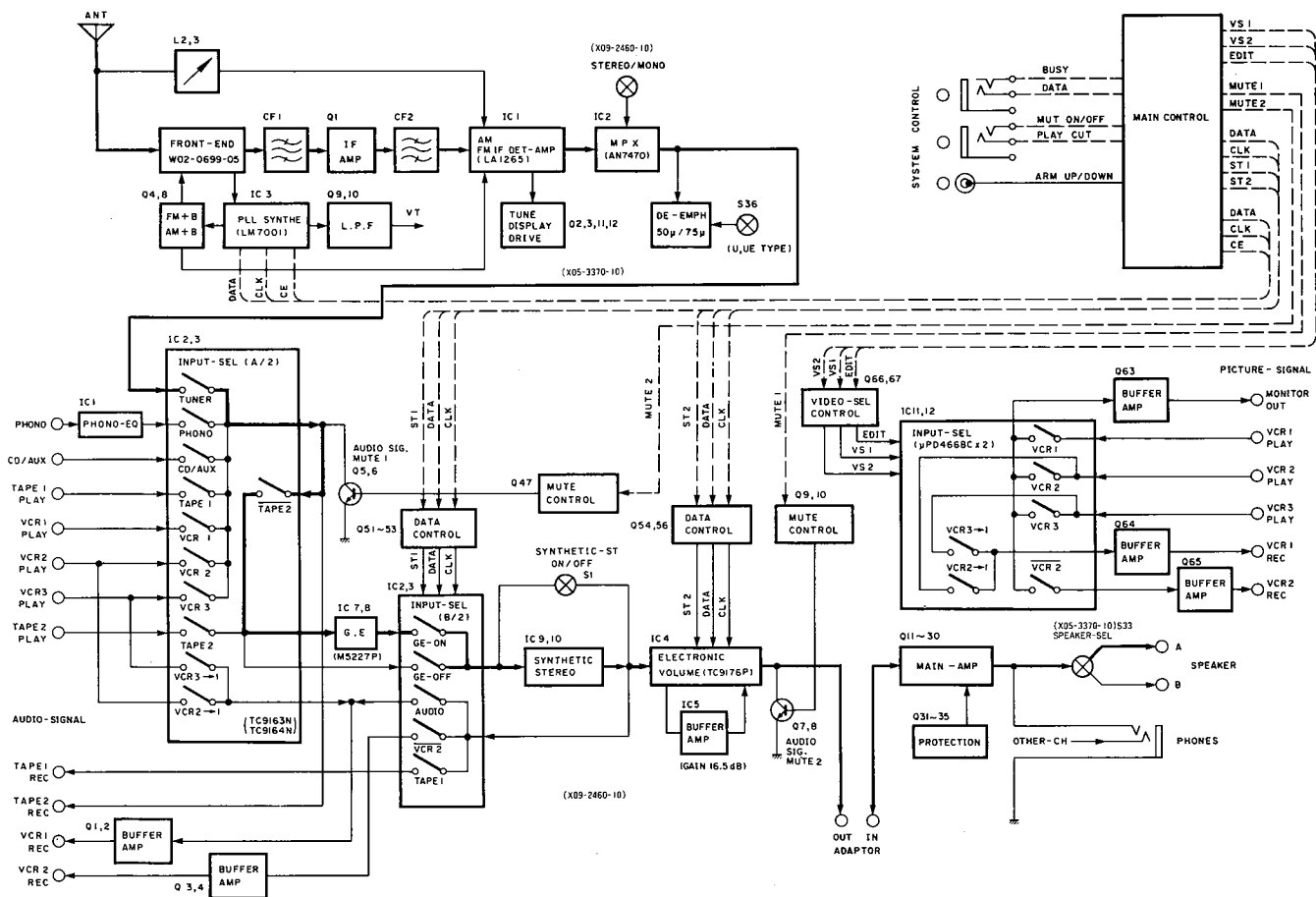


## DISASSEMBLY FOR REPAIR / BLOCK DIAGRAM

10. Remove the 2 screws fixing the Tuner Unit (X05-)(B/6) to the sub panel (10).
11. Disengage the 3 claws fixing the Tuner Unit (X05-)(B/6) (11).
12. Remove the Audio Unit (X05-)(B/6) in the direction of the arrow (12).
13. Remove the 2 screws fixing the potentiometer (Graphic Eq.) to the sub panel (13).



### BLOCK DIAGRAM



## CIRCUIT DESCRIPTION

## Description of components

AUDIO UNIT (X09-2460-10)

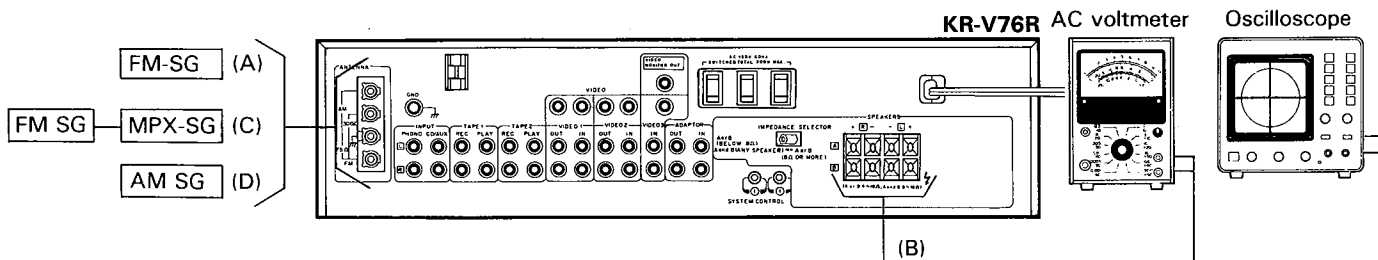
Components	Application/Function	Operation/Condition/Compatibility												
IC1	Phono EQ AMP	MM cartridge												
IC2	Input selecting	selector Phono/CD/TAPE1/TAPE2												
IC3	Input selecting	selector audio sig. of VIDEO 1/2/3												
IC4	Electronic Volume													
IC5	Buffer AMP	(Voltage gain: 16 dB)												
IC7, 8	Graphic EQ	5 freq. points												
IC9, 10	Synthetic Stereo	Buffer AMP/3 stage B.P.F.												
IC11, 12	Picture sig. selecting	VIDEO 1/2/3												
Q1~4	Buffer AMP (audio sig.)	VIDEO 1/2 (emitter follower)												
Q5, 6	Audio sig. mute 1 (TAPE REC)	MUTE-ON at Q47 ON.												
Q7, 8	Audio sig. mute 2 (Electronic VOL out)	MUTE-ON at Q9 ON.												
Q9, 10	Audio sig. mute control of Q7, 8													
Q11~14	Power AMP (1st diff AMP)													
Q15~18	Power AMP (2nd diff AMP)													
Q19, 20	Power AMP (Current mirror configuration in A-class stage)													
Q21, 22	Power AMP (Bias)													
Q23~26	Power AMN (driver stage)													
Q27~30	Power AM (Final stage)													
Q31~33	Current limiter	Q31 (Q32) detects terminal voltage of emitter resistor CP1 (CP2). When SP terminal is shorted to ground, Q31 (Q32) becomes to ON and Q33 goes to ON. So that regulator circuit (Q34, 35) does not function.												
Q34, 35	Power supply to 1st stage of Power AMP	Q35 works as ripple filter when Q34 is OFF.												
Q36	Re-set of IC 11 (—picture sig. selecting)	Q36 cuts VIDEO 3 selecting signal to IC11, when POWER SW is ON/OFF.												
Q37	— 30 V AVR	Display												
Q38~40	+14 V AVR													
Q41~44	— 14 V AVR	<table><tr><td>Status</td><td>Q45</td><td>Q46</td></tr><tr><td>POWER ON</td><td>off</td><td>on</td></tr><tr><td>POWER OFF</td><td>on</td><td>off</td></tr></table>	Status	Q45	Q46	POWER ON	off	on	POWER OFF	on	off			
Status	Q45	Q46												
POWER ON	off	on												
POWER OFF	on	off												
Q45, 46	+5 V AVR (for microprocessor)													
Q47	Audio signal mute 1													
Q51	store sig. control (IC2, 3)													
Q52	data sig. control (IC2, 3)													
Q53	clock sig. control (IC2, 3)													
Q54	store sig. control (IC4)													
Q55	store sig. control (IC4)													
Q56	clock sig. control (IC4)													
Q57~58	Relay (KI) control													
Q60~62	+5 V AVR	Fip <table><tr><td>Status</td><td>Q60</td><td>Q61</td><td>Q62</td></tr><tr><td>POWER ON</td><td>on</td><td>off</td><td>working</td></tr><tr><td>POWER OFF</td><td>off</td><td>on</td><td>off</td></tr></table>	Status	Q60	Q61	Q62	POWER ON	on	off	working	POWER OFF	off	on	off
Status	Q60	Q61	Q62											
POWER ON	on	off	working											
POWER OFF	off	on	off											
Q63	Buffer AMP (picture sig. output)	VIDEO 1 (emitter follower)												
Q64		VIDEO 2 (emitter follower)												
Q65		Monitor out (emitter follower)												
Q66, 67	Control of picture sig. selecting													

## CIRCUIT DESCRIPTION

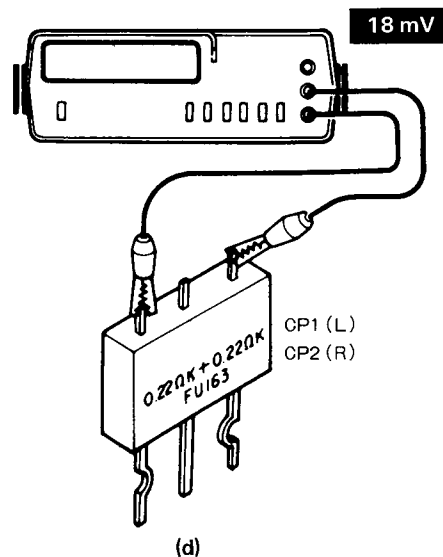
TUNER,  $\mu$ -COM UNIT (X05-3370-10)

Components	Application/Function	Operation/Condition/Compatibility									
IC1	FM IF/DET, AM MIX/IF/DET										
IC2	FM MPX										
IC3	PLL synthe										
IC4	Microprocessor	system control									
IC5	Microprocessor	remote control									
IC6~10	FIP driver	(transistor array)									
IC11	Frequency display control	conv. to display frequency (static display)									
Q1	FM IF AMP										
Q2, 3	TUNE indicating signal	<table border="1"> <tr> <td>status</td><td>Q2</td><td>Q3</td></tr> <tr> <td>TUNE</td><td>OFF</td><td>ON</td></tr> <tr> <td>not TUNE</td><td>ON</td><td>OFF</td></tr> </table>	status	Q2	Q3	TUNE	OFF	ON	not TUNE	ON	OFF
status	Q2	Q3									
TUNE	OFF	ON									
not TUNE	ON	OFF									
Q4	AM/FM switching	<table border="1"> <tr> <td></td><td>FM</td><td>AM</td></tr> <tr> <td>Q4</td><td>ON</td><td>OFF</td></tr> </table>		FM	AM	Q4	ON	OFF			
	FM	AM									
Q4	ON	OFF									
Q5	Prevention of wrong STEREO indicating	Q5 ON when FM TUNE indicator lights on.									
Q7	Ripple filter										
Q8	FM + B switching										
Q9, 10	L. P. F in PLL synthe										
Q11	FIP driver (TUNE)	working when TUNE indicator lights on.									
Q12	FIP driver (STEREO)	working when STEREO indicator lights on.									

## ADJUSTMENT/REGLAGE/ABGLEICH



DC voltmeter  
Voltmètre de CC  
Gleichspannungsmesser



## ADJUSTMENT

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
<b>FM SECTION</b> Unless otherwise specified, the individual switches should be set as following: SELECTOR: FM MODE: STEREO							
1	DISCRIMINATOR (1)	(A) 98.0MHz 1kHz, $\pm 75$ kHz dev 60dB $\mu$ (ANT input)	Connect a DC voltmeter between TP8 and TP9.	MONO 98.0MHz	T2 (X05-)	0V	(a)
2	DISCRIMINATOR (2)	(A) 98.0MHz 1kHz, $\pm 75$ kHz dev 60dB $\mu$ (ANT input)	(B)	MONO 98.0MHz	T3 (X05-)	Minimum distortion.	
Repeat alignments 1 and 2 several times.							
3	VCO	(A) 98.0MHz 0 dev 60dB $\mu$ (ANT input)	Connect a 330k $\Omega$ resistor to TP7. Connect a frequency counter to the resistor via an AC voltmeter.	98.0MHz	VR3 (X05-)	76.00kHz	(b)
4	DISTORTION (STEREO)	(C) 98.0MHz 1kHz, $\pm 68.25$ kHz dev Selector: L or R Pilot: $\pm 6.75$ kHz dev 60dB $\mu$ (ANT input)	(B)	98.0MHz	Front end IFT (X05-)	Minimum distortion.	
5	SEPARATION	(C) 98.0MHz 1kHz, $\pm 68.25$ kHz dev Selector: L or R Pilot: $\pm 6.75$ kHz dev 60dB $\mu$ (ANT input)	(B)	98.0MHz	VR4 (X05-)	Minimum crosstalk. A compromise adjustment may be required if left-to-right and right-to-left separations are unequal.	
<b>AM SECTION</b> Keep the loop antenna installed. INPUT SELECTOR: AM							
(1)	BAND EDGE (1)	—	Connect a DC voltmeter to TP2.	530kHz (531kHz)	L3 (X05-)	1.5V	(c)
(2)	BAND EDGE (2)	—	Connect a DC voltmeter to TP2.	1610kHz (1602kHz)	TC1 (X05-)	8.0V	(c)
Repeat alignments (1) and (2) several times.							
(3)	RF ALIGNMENT (1)	(D) 600(603)kHz 400Hz, 30% mod	(B)	600kHz (603kHz)	L2 (X05-)	Maximum amplitude and symmetry of the oscilloscope display.	
(4)	RF ALIGNMENT (2)	(D) 1400(1404)kHz 400Hz, 30% mod	(B)	1400kHz (1404kHz)	TC2 (X05-)	Maximum amplitude and symmetry of the oscilloscope display.	
Repeat alignments (3) and (4) several times.							
(5)	IF TRANSFORMER	(D) 1000(999)kHz 400Hz, 30% mod	(B)	1000kHz (999kHz)	T1 (X05-)	Maximum amplitude and symmetry of the oscilloscope display.	
<b>AM/FM COMMON SECTION</b>							
6	TUNE INDICATOR THRESHOLD LEVEL (1)	(A) 98.0MHz 0 dev 18dB $\mu$ (ANT input)	—	FM reception 98.0MHz	VR2 (X05-)	Light	
(6)	TUNE INDICATOR THRESHOLD LEVEL (2)	(D) 1000(999)kHz 20~24dB $\mu$ (ANT input)	—	AM reception 1000(999)kHz	VR1 (X05-)	Light	
<b>AUDIO SECTION</b>							
7	IDLE CURRENT	—	(E) DC voltmeter CP1(CP2)	Volume: 0	VR1(L) VR2(R) (X09-)	18mV	(d)

## REGLAGE

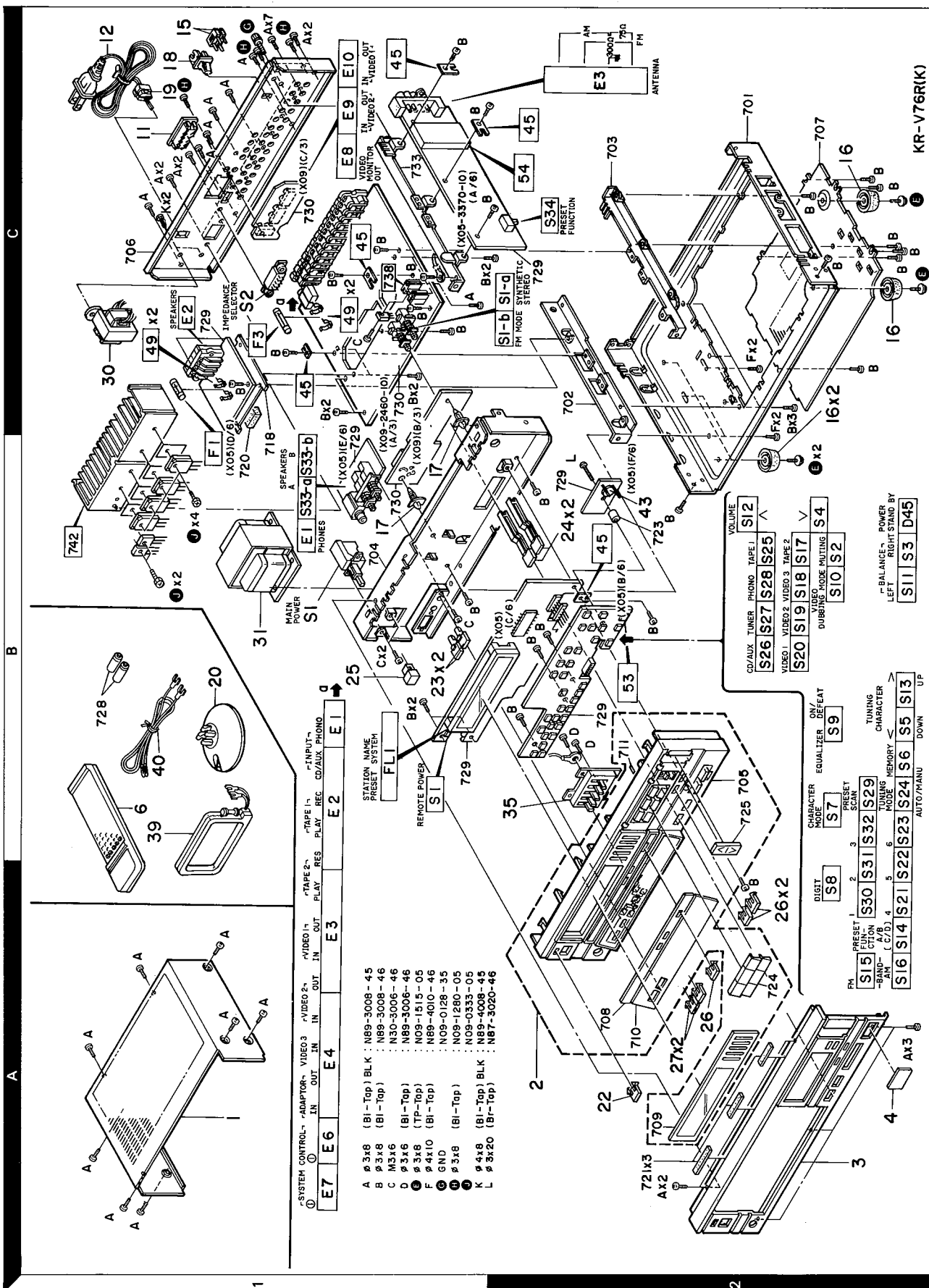
N°	ITEM	REGLAGE DE L'ENTREE	REGLAGE DE LA SORTIE	REGLAGE DU TUNER	POINT DE L'ALIGNEMENT	ALIGNER POUR	FIG.
SECTION MF							
Sauf en cas d'indications spéciales, régler chaque commutateur comme suit:							
SELECTEUR DES ENTRESS: MF MODE: STEREO							
1	DISCRIMINATEUR (1)	(A) 98,0MHz 1kHz.±75kHz dév 60dBμ(Entrée ANT)	Relier un voltmètre CC entre les TP8 et TP9.	MONO 98,0MHz	T2 (X05-)	0V	(a)
2	DISCRIMINATEUR (2)	(A) 98,0MHz 1kHz.±75kHz dév 60dBμ(Entrée ANT)	(B)	MONO 98,0MHz	T3 (X05-)	Distorsion minimale.	
Répéter les points 1 et 2 plusieurs fois.							
3	OSCILLATEUR CONTROLE PAR LA TENSION	(A) 98,0MHz 0 dév 60dBμ(Entrée ANT)	Relier une résistance de 330kΩ à TP7. Raccorder un compteur de fréquence à une résistance par l'intermédiaire d'un voltmètre CA.	98,0MHz	VR3 (X05-)	76,00kHz	(b)
4	DISTORSION (STEREO)	(C) 98,0MHz 1kHz.±68,25kHz dév Selection:L ou R Signal pilote: ±6,75kHz dév 60dBμ(Entrée ANT)	(B)	98,0MHz	Tête H.F. IFT (X05-)	Distorsion minimale.	
5	SEPARATION	(C) 98,0MHz 1kHz.±68,25kHz dév Selection:L ou R Signal pilote: ±6,75kHz dév 60dBμ(Entrée ANT)	(B)	98,0MHz	VR4 (X05-)	Diaphonie minimale. Un compromis de réglage peut être nécessaire si la séparation de gauche à droite et droite à gauche sont inégales.	
SECTION MA							
Laisser l'antenne bouche MA installée. SELECTEUR: AM							
(1)	BORD DE BANDE (1)	—	Relier un voltmètre CC au TP2.	530kHz (531kHz)	L3 (X05-)	1,5V	(c)
(2)	BORD DE BANDE (2)	—	Relier un voltmètre CC au TP2.	1610kHz (1602kHz)	TC1 (X05-)	8,0V	(c)
Répéter les points (1) et (2) plusieurs fois.							
(3)	ALIGNEMENT H.T. (1)	(D) 600(603)kHz 400Hz.30% mod	(B)	600kHz (603kHz)	L2 (X05-)	Amplitude et symétrie maximale de l'affichage de l'oscilloscope.	
(4)	ALIGNEMENT H.T. (2)	(D) 1400(1404)kHz 400Hz.30% mod	(B)	1400kHz (1404kHz)	TC2 (X05-)	Amplitude et symétrie maximale de l'affichage de l'oscilloscope.	
Répéter les points (3) et (4) plusieurs fois.							
(5)	TRANSFORMATEUR F.I.	(D) 1000(999)kHz 400Hz.30% mod	(B)	1000kHz (999kHz)	T1 (X05-)	Amplitude et symétrie maximale de l'affichage de l'oscilloscope.	
SECTION COMMUNE MA/MF							
6	INDICATEUR DE SYNTONISATION NIVEAU DE SEUIL	(A) 98,0MHz 0 dév 18dBμ(Entrée ANT)	—	Reception MF 98,0MHz	VR2 (X05-)	Arrume	
(6)	INDICATEUR DE SYNTONISATION NIVEAU DE SEUIL	(D) 1000(999)kHz 20~24dBμ (Entrée ANT)	—	Reception MA 1000(999)kHz	VR1 (X05-)	Arrume	
SECTION AUDIO							
7	COURANA DE POLARISATION	—	(E) Connecter un voltmètre CC CP1(CP2)	Volume: 0	VR1 (G) VR2 (D) (X09-)	18mV	(d)

## ABGLEICH

NR.	GEGENSTAND	EINGANGS-EINSTELLUNG	AUSGANGS-EINSTELLUNG	TUNER-EINSTELLUNG	ABGLEICH-PUNKTE	ABGLEICHEN FÜR	ABB.
UKW-EMPFANGSABTEILUNG      Außer wenn anders angegeben, die verschiedenen Schalter wie folgt einstellen: EINGANGSUMSCHALTER: FM      MODE: STEREO							
1	DISKRIMINATOR (1)	(A) 98,0MHz 1kHz.±75kHz Hub 60dBμ(Ant-Eingang)	Einen Gleichspannungs- messer zwischen TP8 und TP9 anschließen.	MONO 98,0MHz	T2 (X05-)	0V	(a)
2	DISKRIMINATOR (2)	(A) 98,0MHz 1kHz.±75kHz Hub 60dBμ(Ant-Eingang)	(B)	MONO 98,0MHz	T3 (X05-)	Minimal Klirrfaktor.	
Abstimmungen 1 und 2 mehrere Male wiederholen.							
3	SPANNUNGS- GEREGELTER OSZILLATOR	(A) 98,0MHz 0 Hub 60dBμ(Ant-Eingang)	Einen 330kΩ Wider- standen zu TP7 anschließen. Einen Frequenzzähler über einen Wechselspannungs- messer an den Wider- stand anschließen.	98,0MHz	VR3 (X05-)	76,00kHz	(b)
4	KLIRRFaktor (STEREO)	(C) 98,0MHz 1kHz.±68,25kHz Hub Wähler:L oder R Piloten: ±6,75kHz Hub 60dBμ(Ant-Eingang)	(B)	98,0MHz	Frontende IFT (X05-)	Minimal Klirrfaktor.	
5	STEREO KANAL Trennung	(C) 98,0MHz 1kHz.±68,25kHz Hub Wähler:L oder R Piloten: ±6,75kHz Hub 60dBμ(Ant-Eingang)	(B)	98,0MHz	VR4 (X05-)	Minimales Übersprechen. Eine Ausgleich- regelung kann notwendig sein, falls links-zu-rechts und rechts-zu-links. Trennungen ungleich sind.	
MW-EMPFANGSABTEILUNG      Die MW-Rahmenantenne angebracht lassen. WÄHLER: AM							
(1)	BANDKANTE (1)	—	Einen Gleichspannungs- messer zu TP2 anschließen.	530kHz (531kHz)	L3 (X05-)	1.5V	(c)
(2)	BANDKANTE (2)	—	Einen Gleichspannungs- messer zu TP2 anschließen.	1610kHz (1602kHz)	TC1 (X05-)	8.0V	(c)
Abstimmungen (1) und (2) mehrere Male wiederholen.							
(3)	HF-ABGLEICH (1)	(D) 600(603)kHz 400Hz.30% mod	(B)	600kHz (603kHz)	L2 (X05-)	Maximal Amplitude und Symmetrie des Oszilloskopbildes.	
(4)	HF-ABGLEICH (2)	(D) 1400(1404)kHz 400Hz.30% mod	(B)	1400kHz (1404kHz)	TC2 (X05-)	Maximal Amplitude und Symmetrie des Oszilloskopbildes.	
Abstimmungen (3) und (4) mehrere Male wiederholen.							
(5)	ZF-ÜBERTRAGER	(D) 1000(999)kHz 400Hz.30% mod	(B)	1000kHz (999)kHz	T1 (X05-)	Maximal Amplitude und Symmetrie des Oszilloskopbildes.	
MW/UKW-EMPFANGSABTEILUNG      Die MW/UKW-Rahmenantenne angebracht lassen.							
6	ABSTIMMANZEIGE SCHWELLENPEGEL	(A) 98,0MHz 0 Hub 18dBμ(Ant-Eingang)	—	UKW-Empfang 98,0MHz	VR2 (X05-)	Einschalen	
(6)	ABSTIMMANZEIGE SCHWELLENPEGEL	(D) 1000(999)kHz 20~24dBμ (Ant-Eingang)	—	MW-Empfang 1000(999)kHz	VR1 (X05-)	Einschalen	
AUDIO-ABTEILUNG							
7	LEERLAUFSTROM	—	(E) Einen Gleichspannungs- messer über CPI(CP2)	Volume: 0	VR1 (L) VR2 (R) (X09-)	18mV	(d)



## EXPLODED VIEW



## PARTS LIST

× New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Telle ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕 向	Re- marks 備考
KR-V76R						
1	1A		A01-1488-01	METALLIC CABINET		
2	2A	*	A22-0675-02	SUB PANEL ASSY		
3	2A		A20-4844-02	PANEL		
6	1B	*	A70-0170-15	REMOTE CONTROLLER ASSY	K	
6	1B	*	A70-0171-25	REMOTE CONTROLLER ASSY	P	
4	2A		B03-2058-04	DRESSING PLATE (REMOTE SENSOR)		
-			B46-0092-03	WARRANTY CARD	K	
-			B46-0121-03	WARRANTY CARD	P	
-		*	B50-6816-00	INSTRUCTION MANUAL (ENGLISH)	K	
-		*	B50-6817-00	INSTRUCTION MANUAL (ENG, FRE)	P	
-			B58-0269-04	CAUTION CARD	K	
-			B58-0389-04	CAUTION CARD		
11	1C		E03-0086-05	AC OUTLET		
12	1C		E30-2209-05	AC POWER CORD		
-		*	H01-7558-04	ITEM CARTON CASE		
-		*	H10-3452-04	POLYSTYRENE FOAMED FIXTURE		
-		*	H10-3468-02	POLYSTYRENE FOAMED FIXTURE		
-			H25-0181-04	PROTECTION BAG (150X260X0.05)		
-			H25-0224-04	PROTECTION BAG (800X400X0.03)		
-			H25-0232-04	PROTECTION BAG (235X350X0.03)		
15	1C		J12-0094-05	PIN (ADAPTOR)		
16	2C		J02-0170-04	FOOT		
17	1B		J19-0506-05	UNIT HOLDER		
18	1C		J19-0564-05	ANTENNA HOLDER		
19	1C		J42-0083-05	POWER CORD BUSHING		
20	1B	*	J19-2815-04	ANTENNA HOLDER		
-			J61-0307-05	WIRE BAND		
22	2A		K29-2423-04	KNOB (BUTTON) REMOTE POWER		
23	1B		K27-1264-04	KNOB (BUTTON) SPEAKERS		
24	2B		K27-1647-04	KNOB (BUTTON) FM MODE, SYNTH		
25	1B		K29-2001-04	KNOB ASSY (BUTTON) POWER		
26	2A		K29-2422-04	KNOB (BUTTON) EQ, DUBBING, MUTING		
27	2A		K29-2425-04	KNOB (BUTTON) SEL, CHAR MODE		
30	1C		L01-6681-05	POWER TRANSFORMER (BACKUP)		
31	1B	*	L01-7851-05	POWER TRANSFORMER	K	
31	1B	*	L01-7857-05	POWER TRANSFORMER	P	
E	2B, 2C		N09-1515-05	TAPPING SCREW (Ø3X8)		
G	1C		N08-0128-35	BINDING POST (GND)		
H	1C		N09-1280-05	TAPTITE SCREW (Ø3X8)		
35	2B		R29-5010-05	POTENTIOMETER (5KEY, 20KW) EQ		
S1	1B		S40-1073-05	PUSH SWITCH (POWER)		
S2	1C		S31-2113-05	SLIDE SWITCH (IMPEDANCE)		
39	1B		T90-0104-25	LOOP ANTENNA		
40	1B		T90-0121-05	T TYPE ANTENNA		
-	1B		M50461-057SP	IC (REMOTE CONTROLLER)	K	
43	2B		W09-0031-05	BATTERY		

E: Scandinavia & Europe K: USA

P: Canada

U: PX (Far East, Hawaii)

T: England

M: Other Areas

UE: AAFES (Europe)

X: Australia

⚠ indicates safety critical components.

## PARTS LIST

× New Parts

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Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕 向	Re- marks 備考
TUNER UNIT (X05-3370-10)						
D45	2B		B30-0483-05	LED(SLP-170B) POWER STAND BY		
C1 ,2			C91-0769-05	CERAMIC 0.01UF M		
C3			CK45FF1H103Z	CERAMIC 0.010UF Z		
C4			C91-0769-05	CERAMIC 0.01UF M		
C5		*	CE04LW1C330M	ELECTR0 33UF 16WV		
C6			CE04LW1HR47M	ELECTR0 0.47UF 50WV		
C7			CC45FSL1H101J	CERAMIC 100PF J		
C8		*	CE04LW1C330M	ELECTR0 33UF 16WV		
C9			CK45FF1H223Z	CERAMIC 0.022UF Z		
C10			CK45FF1H103Z	CERAMIC 0.010UF Z		
C11		*	CC93FCH1H391J	CERAMIC 390PF J		
C12			C91-0769-05	CERAMIC 0.01UF M		
C13			CE04LW1V100M	ELECTR0 10UF 35WV		
C14 ,15			CK45FF1H223Z	CERAMIC 0.022UF Z		
C16			CE04LW1H2R2M	ELECTR0 2.2UF 50WV		
C17			CE04LW1H3R3M	ELECTR0 3.3UF 50WV		
C18			CE04LW1V100M	ELECTR0 10UF 35WV		
C19			CF92FV1H223J	MF 0.022UF J		
C20			CF92FV1H273J	MF 0.027UF J		
C21			CK45FF1H223Z	CERAMIC 0.022UF Z		
C22			CE04LW1H3R3M	ELECTR0 3.3UF 50WV		
C23		*	CC93FCH1H471J	CERAMIC 470PF J		
C24			CE04LW1H3R3M	ELECTR0 3.3UF 50WV		
C25			CE04LW1H2R2M	ELECTR0 2.2UF 50WV		
C26			CF92FV1H473J	MF 0.047UF J		
C27			C91-0753-05	CHIP C 470PF K		
C28		*	CE04LW1C101M	ELECTR0 100UF 16WV		
C30		*	CE04LW1V4R7M	ELECTR0 4.7UF 35WV		
C31		*	CE04LW1C330M	ELECTR0 33UF 16WV		
C32			CE04LW1V100M	ELECTR0 10UF 35WV		
C33			C91-0769-05	CERAMIC 0.01UF M		
C34			CE04LW1C330M	ELECTR0 33UF 16WV		
C35			C91-0769-05	CERAMIC 0.01UF M		
C36			CF92FV1H473J	MF 0.047UF J		
C37			C90-1349-05	NP-ELEC 1UF 50WV		
C38			CE04LW1H010M	ELECTR0 1.0UF 50WV		
C39			CC45FCH1H470J	CERAMIC 47PF J		
C40			CC45FCH1H390J	CERAMIC 39PF J		
C41			CE04LW1HR47M	ELECTR0 0.47UF 50WV		
C43			C91-0769-05	CERAMIC 0.01UF M		
C72 ,73			CC45FSL1H151J	CERAMIC 150PF J		
C74 ,75			CF92FV1H223J	MF 0.022UF J		
C78 ,79			CE04LW1H010M	ELECTR0 1.0UF 50WV		
C200-203			C91-0737-05	CERAMIC 47PF J		
C204			C91-0769-05	CERAMIC 0.01UF M		
C205,206			CE04JW1H010M	ELECTR0 1.0UF 50WV		
C207,208			C91-0749-05	CERAMIC 220PF K		
C209			CE04JW1H010M	ELECTR0 1.0UF 50WV		
C210			C91-0789-05	BACKUP C 0.047F		
C211			CE04JW1A101M	ELECTR0 100UF 10WV		
C212			CE04JW0J100M	ELECTR0 10UF 6.3WV		
C213			CE04JW1A101M	ELECTR0 100UF 10WV		

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C214 C215 C216 C217 C218-220		*	CE04CW1A101M CE04JW0J100M CE04LW1C331M CE04JW1V3R3M C91-0745-05	ELECTR0 100UF 10WV ELECTR0 10UF 6.3WV ELECTR0 330UF 16WV ELECTR0 3.3UF 35WV CERAMIC 100PF K		
C235-238 TC1 ,2			CE04CW1A101M C05-0303-05	ELECTR0 100UF 10WV CERAMIC TRIMMER CAPACITOR(20PF		
45 E1 E2 E3	1C,2C 1B 1C 2C		E23-0125-05 E11-0162-05 E20-0823-05 E20-0452-05	TERMINAL (GND) PHONE JACK (3P) LOCK TERMINAL BOARD(8P)SPEAKER SCREW TERMINAL BOARD(4P)ANT		
△ F1	1B		F06-5022-05	FUSE (UL) (250V 5A)		
49	1C		J13-0041-05	FUSE CLIP		
CF1 ,2 CF3 CF4 L1 L2			L72-0140-05 L72-0099-05 L72-0096-05 L40-1092-14 L31-0509-05	CERAMIC FILTER CERAMIC FILTER CERAMIC FILTER SMALL FIXED INDUCTOR(1.0UH,M) MW-RF COIL		
L3 L4 L5 L6 L7			L32-0277-15 L40-1021-14 L40-2292-14 L39-0128-05 L40-2292-14	MW OSCILLATING COIL SMALL FIXED INDUCTOR(1.0MH,K) SMALL FIXED INDUCTOR(2.2UH,M) PEAKING COIL SMALL FIXED INDUCTOR(2.2UH,M)		
L8 ,9 L12 T1 T2 T3			L39-0085-05 L40-1021-14 L30-0362-05 L30-0447-05 L30-0448-05	PHASE-COMPENSATION COIL SMALL FIXED INDUCTOR(1.0MH,K) AM IFT FM IFT FM IFT		
X1 X2 X3			L77-0578-05 L78-0209-05 L78-0202-05	CRYSTAL RESONATOR(7.2MHZ) RESONATOR (4.194MHZ) RESONATOR (400KHZ)		
CP1 CP2 CP3 ,4 CP5 -9 CP10			R90-0475-05 R90-0202-05 R90-0470-05 R90-0426-05 R90-0441-05	COMPOSITE ELEMENTS MULTI-COMP 47KX4 J 1/6W COMPOSITE ELEMENTS MULTI-COMP 100KX6 J 1/6W MULTI-COMP 10KX9 J 1/6W		
CP11 R12 R23 R37 R50			R90-0416-05 RD14GB2E101J RD14GB2E101J RD14GB2E101J RD14GB2E221J	MULTI-COMP 10KX13 J 1/6W FL-PROOF RD 100 J 1/4W FL-PROOF RD 100 J 1/4W FL-PROOF RD 100 J 1/4W FL-PROOF RD 220 J 1/4W		
△ R238 R250,251 R252,253 VR1 VR2			R92-0173-05 RS14KB3A561J RD14GB2E100J R12-3096-05 R12-3097-05	RC 2.2M M 1/2W FL-PROOF RS 560 J 1W FL-PROOF RD 10 J 1/4W TRIMMING P0T. (10K)AM TRIMMING P0T. (22K)FM		
VR3 VR4			R12-1069-05 R12-8015-05	TRIMMING P0T. (4.7K)VCO TRIMMING P0T. (1M) SEPARATION		
△ K1 S1 -32 S33 S34	2A,2B 1B 2C		S51-1036-05 S40-1064-05 S42-2139-05 S31-2094-05	MAGNETIC RELAY PUSH SWITCH (OPERATION KEY) MULTIPLE PUSH SWITCH(SPEAKERS) SLIDE SWITCH (PRESET)		

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D1			1SS133	DIODE		
D1			1SS176	DIODE		
D2			KV1236(ZZ)	VARIABLE CAPACITANCE DIODE		
D3			HZ56.BN(B2)	ZENER DIODE		
D3			RD6.8ES(B2)	ZENER DIODE		
D4 -6			1SS133	DIODE		
D4 -6			1SS176	DIODE		
D8			1SS133	DIODE		
D8			1SS176	DIODE		
D10			1SS133	DIODE		
D10			1SS176	DIODE		
D21 -38			1SS133	DIODE		
D21 -38			1SS176	DIODE		
D39			HZ510N(B)	ZENER DIODE		
D39			RD10ES(B)	ZENER DIODE		
D40 -44			1SS133	DIODE		
D40 -44			1SS176	DIODE		
D46 -50			DSM1A1	DIODE		
D51 -53			1SS133	DIODE		
D51 -53			1SS176	DIODE		
FL1			FIP9AM24	FLUORESCENT INDICATOR TUBE		
IC1			LA1265	IC(FM/AM TUNER)		
IC2			AN7470	IC(FM MPX)		
IC3			LM7001	IC(PLL FREQUENCY SYNTHESIZER)		
IC4			7516HG-050-36	IC(MICROPROCESSOR)		
IC5			UPD7564CS-037	IC(MICROPROCESSOR)		
IC6 -10			LB1294	IC(6CH DARLINGTON DRIVER)		
IC11			TD6301AP	IC(FL/LED/LCD FREQ DISPLAY DR)		
Q1			2SC1923(R,Q)	TRANSISTOR		
Q2 -5			2SC945(A)(Q,P)	TRANSISTOR		
Q7			2SC2003(L,K)	TRANSISTOR		
Q8			2SA733(A)(Q,P)	TRANSISTOR		
Q9 ,10			2SC1845(F,E)	TRANSISTOR		
Q11 ,12			2SA733(A)(Q,P)	TRANSISTOR		
53	2B		W02-0692-05	ELECTRIC CIRCUIT MODULE		
54	2C		W02-0699-05	FM FRONT-END ASSY		
<b>AUDIO UNIT (X09-2460-10)</b>						
C1 ,2			C91-0749-05	CERAMIC 220PF K		
C3 ,4			CE04LW1V100M	ELECTRO 10UF 35WV		
C7 ,8		*	CE04LW1A101M	ELECTRO 100UF 10WV		
C9 ,10			CF92FV1H123J	MF 0.012UF J		
C11 ,12			CF92FV1H332J	MF 3300PF J		
C13 ,14		*	CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C15 -30			C91-0753-05	CHIP C 470PF K		
C31 -34			CE04LW1V100M	ELECTRO 10UF 35WV		
C35 -40			CE04LW1HR47M	ELECTRO 0.47UF 50WV		
C41 ,42			CE04LW1H2R2M	ELECTRO 2.2UF 50WV		
C43 ,44			CE04LW1HR47M	ELECTRO 0.47UF 50WV		
C45 ,46			C91-0751-05	CERAMIC 330PF K		
C47 ,48			CE04LW1V100M	ELECTRO 10UF 35WV		
C49			C91-0769-05	CERAMIC 0.01UF M		
C51			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C52			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C53 ,54			CK45FF1H223Z	CERAMIC 0.022UF Z		

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C55			C91-0769-05	CERAMIC 0.01UF M		
C56			CE04LW1C470M	ELECTR0 47UF 16WV		
C57			CE04LW1C470M	ELECTR0 47UF 16WV		
C58			CE04EW1C101M	ELECTR0 100UF 16WV		
C59 ,60		*	CE04LW1C220M	ELECTR0 22UF 16WV		
C61 ,62			CE04LW1H010M	ELECTR0 1.0UF 50WV		
C63 ,64			C91-0749-05	CERAMIC 220PF K		
C65 -68			C91-0769-05	CERAMIC 0.01UF M		
C69 ,70			CC45FSL1H020C	CERAMIC 2.0PF C		
C71 ,72			CC45FSL1H220J	CERAMIC 22PF J		
C73 ,74			CC45FSL1H470J	CERAMIC 47PF J		
C75 ,76			CC45FSL1H221J	CERAMIC 220PF J		
C77 ,78			CK45FF1H103Z	CERAMIC 0.010UF Z		
C81 ,82			CF92FV1H473J	MF 0.047UF J		
C83 ,84			CK45FB1H222K	CERAMIC 2200PF K		
C85		*	CE04LW1J100M	ELECTR0 10UF 63WV		
C86		*	CE04LW1J330M	ELECTR0 33UF 63WV		
C87			CE04LW1V100M	ELECTR0 10UF 35WV		
C88			CE04LW1C221M	ELECTR0 220UF 16WV		
C89			CE04LW1H2R2M	ELECTR0 2.2UF 50WV		
C90		*	CE04LW1E101M	ELECTR0 100UF 25WV		
C91		*	CE04LW1H100M	ELECTR0 10UF 50WV		
C92		*	CE04LW1H101M	ELECTR0 100UF 50WV		
C93 ,94		*	C90-1500-05	ELECTR0 5600UF 63WV		
C95 ,96			CK45FF1H103Z	CERAMIC 0.010UF Z		
C97		*	CE04LW1V101M	ELECTR0 100UF 35WV		
C98		*	CE04LW1E332M	ELECTR0 3300UF 25WV		
C99 -103			CE04LW1C470M	ELECTR0 47UF 16WV		
C104,105			C91-0757-05	CERAMIC 0.001UF K		
C106		*	CE04LW1V4R7M	ELECTR0 4.7UF 35WV		
C107			CE04LW1H010M	ELECTR0 1.0UF 50WV		
C108		*	CE04EW1V220M	ELECTR0 22UF 35WV		
C111,112			CK45FB1H561K	CERAMIC 560PF K		
C113,114			CE04LW1H2R2M	ELECTR0 2.2UF 50WV		
C115,116		*	CE04LW1HOR1M	ELECTR0 0.1UF 50WV		
C117,118			CE04LW1HR47M	ELECTR0 0.47UF 50WV		
C119,120			CF92FV1H223J	MF 0.022UF J		
C121,122			CF92FV1H154J	MF 0.15UF J		
C123,124			CF92FV1H562J	MF 5600PF J		
C125,126			CF92FV1H473J	MF 0.047UF J		
C127,128			CF92FV1H182J	MF 1800PF J		
C129			CF92FV1H153J	MF 0.015UF J		
C130			CF92FV1H153J	MF 0.015UF J		
C131,132			CK45FB1H561K	CERAMIC 560PF K		
C133			CE04LW1HR47M	ELECTR0 0.47UF 50WV		
C134			CF92FV1H123J	MF 0.012UF J		
C135			CF92FV1H332J	MF 3300PF J		
C136			CF92FV1H123J	MF 0.012UF J		
C137			CF92FV1H332J	MF 3300PF J		
C138			CF92FV1H123J	MF 0.012UF J		
C139			CF92FV1H332J	MF 3300PF J		
C140			CE04LW1V100M	ELECTR0 10UF 35WV		
C141,142			CF92FV1H333J	MF 0.033UF J		
C143			CE04LW1V100M	ELECTR0 10UF 35WV		
C151			CE04LW1V100M	ELECTR0 10UF 35WV		

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C152 C153 C154-156 C157,158			CE04JW1C100M CE04LW1V100M CE04EWOJ471M CE04LW1A470M	ELECTR0 10UF 16WV ELECTR0 10UF 35WV ELECTR0 470UF 6.3WV ELECTR0 47UF 10WV		
45 E2 -4 E6 ,7 E8 -10 E1 1B	1C 1A,1B 1A 1C	*	E23-0125-05 E13-0814-05 E11-0164-05 E13-0227-05 E13-0229-05	TERMINAL PHONE JACK (8P)TAPE,VIDEO MINIATURE PHONE JACK(3P) PHONE JACK (2P)VIDEO,MONI PHONE JACK (2P)INPUT		
F3	1C		F06-1521-05	FUSE (UL) (250V 1.5A)		
49	1C		J13-0041-05	FUSE CLIP		
J	1B		N09-0333-05	TAPPING SCREW (Ø3X12)		
CP1 ,2 R131-136 R143-146 R147-150 R151			R90-0187-05 RD14GB2E221J RD14GB2E221J RD14GB2E2R2J RD14GB2E100J	MULTI-COMP 0.22X2 K 5W FL-PROOF RD 220 J 1/4W FL-PROOF RD 220 J 1/4W FL-PROOF RD 2.2 J 1/4W FL-PROOF RD 10 J 1/4W		
R152 R153,154 R169 R175 R183,184			RD14GB2E470J RS14KB3D4R7J RD14GB2E4R7J RD14GB2E270J RS14KB3A681J	FL-PROOF RD 47 J 1/4W FL-PROOF RS 4.7 J 2W FL-PROOF RD 4.7 J 1/4W FL-PROOF RD 27 J 1/4W FL-PROOF RS 680 J 1W		
R187 R194 VR1 ,2			RD14GB2E101J RD14GB2E101J R12-1066-05	FL-PROOF RD 100 J 1/4W FL-PROOF RD 100 J 1/4W TRIMMING POT. (1K)IDLE CURRENT		
S1	1C		S42-2140-05	MULTIPLE PUSH SWITCH(FM,STNTH		
D1 -38 D1 -38 D39 -42 D39 -42 D43			1SS133 1SS176 1SS131 1SS178 DSM1A1	DIODE DIODE DIODE DIODE DIODE		
D44 ,45 D44 ,45 D46 -49 D50 ,51 D52			1SS133 1SS176 DSA3A2 DSM1A1 RD33ES(B2)	DIODE DIODE DIODE DIODE ZENER DIODE		
D53 D53 D54 -57 D58 D58			HZS8.2N(B2) RD8.2ES(B2) DSM1A1 HZS13N(B2) RD13ES(B2)	ZENER DIODE ZENER DIODE DIODE ZENER DIODE ZENER DIODE		
D59 D59 D60 D60 D61			1SS131 1SS178 1SS133 1SS176 HZS6.2N(B2)	DIODE DIODE DIODE DIODE ZENER DIODE		
D61 D62 -64 D62 -64 D69 ,70 D69 ,70			RD6.2ES(B2) 1SS133 1SS176 1SS133 1SS176	ZENER DIODE DIODE DIODE DIODE DIODE		

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D71 D71 D72 D72 D73 ,74			HZS8.2N(B2) RD8.2ES(B2) HZS6.2N(B2) RD6.2ES(B2) 1SS133	ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE DIODE		
D73 ,74 D79 -86 D79 -86 D87 D87			1SS176 1SS133 1SS176 HZS6.2N(B2) RD6.2ES(B2)	DIODE DIODE DIODE ZENER DIODE ZENER DIODE		
D88 D88 D89 ,90 IC1 IC1			HZS3.3N(B) RD3.3ES(B) 1SS133 AN6556F M5218P-A	ZENER DIODE ZENER DIODE DIODE IC(OP AMP X2) IC(OP AMP X2)		
IC2 IC3 IC4 IC5 IC5			TC9164N TC9163N TC9176P AN6556F M5218P-A	IC(16CH BILATERAL SELECTOR SW) IC(BILATERAL SWITCH X16) IC(2CH ELECTRONIC VOLUME) IC(OP AMP X2) IC(OP AMP X2)		
IC7 ,8 IC9 ,10 IC9 ,10 IC11,12 Q1 -4			M5227P AN6556F M5218P-A UPD4066BC 2SC1845(F,E)	IC(5CH GRAPHIC EQUALIZER) IC(OP AMP X2) IC(OP AMP X2) IC(BILATERAL SWITCH X4) TRANSISTOR		
Q5 ,6 Q7 ,8 Q9 Q9 Q10			2SC2878 2SC945(A)(Q,P) 2SA733(A)(Q,P) 2SA999(E,F) 2SC2320(E,F)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q10 Q11 -14 Q15 -18 Q19 ,20 Q21 ,22			2SC945(A)(Q,P) 2SA992(F,E) 2SC1845(F,E) 2SA992(F,E) 2SC3419(Y)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q23 ,24 Q25 ,26 Q27 ,28 Q29 ,30 Q31 ,32			2SC2590(Q,R) 2SA1110(Q,R) 2SC3280*5 2SA1301*5 2SC1845(F,E)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q33 Q34 ,35 Q34 ,35 Q36 Q37			2SA992(F,E) 2SC2320(E,F) 2SC945(A)(Q,P) 2SC2878 2SB772(Q,P)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q38 Q39 ,40 Q40 Q41 Q41 ,42			2SC2167 2SC945(A)(Q,P) 2SC2320(E,F) 2SA999(E,F) 2SA733(A)(Q,P)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q43 ,44 Q45 Q45 Q46 Q47			2SC2167 2SA733(A)(Q,P) 2SA999(E,F) 2SC2003(L,K) 2SA733(A)(Q,P)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		

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Q47 Q51 -57 Q51 -57 Q58 Q60 ,61  Q60 ,61 Q62 Q63 -65 Q66 ,67 Q66 ,67			2SA999(E,F) 2SC2320(E,F) 2SC945(A)(Q,P) 2SC2003(L,K) 2SA733(A)(Q,P)  2SA999(E,F) 2SC2003(L,K) 2SA999(E,F) 2SC2320(E,F) 2SC945(A)(Q,P)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR  TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
FM FRONT-END ASS'Y (W02-0699-05)						
D1 -3 TR1 TR2 ,3 TR4			1SV110 2SK439 2SC3391 2SC3494	DIODE TRANSISTOR TRANSISTOR TRANSISTOR		

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SPECIFICATIONS

AUDIO SECTION  
Power Output

70 watts per channel minimum RMS, both chan-  
nels driven at 8 ohms from 20 Hz to 20,000 Hz with  
no more than 0.03 % total harmonic distortion

73 watts per channel minimum RMS, both channels driven  
into 8 ohms at 1 kHz with no more than 0.03 % total  
harmonic distortion

Total Harmonic Distortion  
(20Hz-20.000Hz, 8 ohms)..... 0.03 % at 70 watts  
(1kHz , 8 ohms)..... 0.007 % at 70 watts  
Intermodulation Distortion..... 0.03 % at 70 watts  
Input Sensitivity/Impedance  
PHONO (MM) ..... 2.5 mV/47 kohms  
CD/AUX,TAPE,VIDEO ..... 150 mV/47 kohms  
Frequency Response  
PHONO (RIAA Standard  
Curve)..... (20Hz-20,000Hz) .....±0.5dB  
TAPE,CD/AUX,VIDEO ..... (10Hz-70,000Hz) ... +0, -3dB  
Signal to Noise Ratio  
PHONO (MM) ..... 73 dB  
CD/AUX, TAPE ..... 100 dB  
VIDEO ..... 90 dB  
Graphic Equalizer  
Center Frequency ..... 63Hz, 300Hz, 1kHz, 3kHz,  
10kHz  
Control Range ..... ±12 dB

VIDEO SECTION

Inputs  
VIDEO 1,2,3 ..... 1 Vp-p,75 ohms (unbalanced)  
Outputs  
VIDEO 1,2,  
MONITOR OUT ..... 1 Vp-p,75 ohms (unbalanced)

Kenwood follows a policy of continuous advancements in development.  
For this reason specifications may be changed without notice.  
DOLBY and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.  
Noise reduction circuit made under license from Dolby Laboratories Licensing Corporation.

Kenwood poursuit une politique de progrès constants en ce qui concerne le développement.  
Pour cette raison, les spécifications sont sujettes à modifications sans préavis.  
La marque DOLBY et le double "D" sont des marques déposées des Dolby Laboratories.  
Le système de réduction du bruit de fond est fabriqué sous license des Dolby Laboratories.

Kenwood strebt ständige Verbesserungen in der Entwicklung an.  
Daher bleiben Änderungen der technischen Daten jederzeit vorbehalten.  
DOLBY und Doppel-D-Symbol sind eingetragene Warenzeichen der Dolby Laboratories.  
Dolby-Rauschunterdrückung mit Lizenz der Dolby Laboratories gefertigt.

Note:

Component and circuitry are subject to modification to insure best  
operation under differing local conditions. This manual is based on,  
the U.S. (K) standard, and provides information on regional circuit  
modification through use of alternate schematic diagrams, and in-  
formation on regional component variations through use of parts  
list.

FM TUNER SECTION

Tuning Frequency Range ..... 87.5 MHz - 108 MHz  
Antenna Impedance ..... 300 ohms balanced & 75  
ohms unbalanced  
Usable Sensitivity ..... 10.8 dBf (1.9 μV)  
50dB Quieting Sensitivity  
MONO ..... 14.2 dBf (2.8 μV)  
STEREO ..... 37.1 dBf (39 μV)  
Signal to Noise Ratio at 65 dBf  
MONO ..... 78 dB  
STEREO ..... 72 dB  
Total Harmonic Distortion at 1,000Hz  
MONO ..... 0.09 %  
STEREO ..... 0.12 %  
Frequency Response ..... 30 Hz - 15,000 Hz <sup>+0.5dB</sup><sub>-2dB</sub>  
Stereo Separation ..... 45 dB at 1,000 Hz  
Selectivity ..... 55 dB at 400kHz  
Capture Ratio ..... 1.2 dB  
Image Rejection Ratio ..... 43 dB  
IF Rejection Ratio ..... 86 dB  
Spurious Rejection Ratio ..... 83 dB  
AM Suppression Ratio ..... 62 dB

AM TUNER SECTION

Tuning Range  
(530kHz - 1,610kHz) with the AM tuning interval set at 10 kHz  
Usable Sensitivity ..... 10 μV (400 μV/m)  
Signal to Noise Ratio ..... 50 dB  
Total Harmonic Distortion ..... 0.3 %  
Selectivity ..... 25 dB

GENERAL

Power Requirement ..... 60 Hz, 120 V  
Power Consumption ..... 3A  
AC Outlet ..... Switched x 3 (200 W)  
Dimensions ..... W: 420 mm (16-9/16")  
H: 111 mm (4-3/8")  
D: 319.5 mm (12-9/16")  
Weight ..... Net. 7.4kg ( 16.3 lb)

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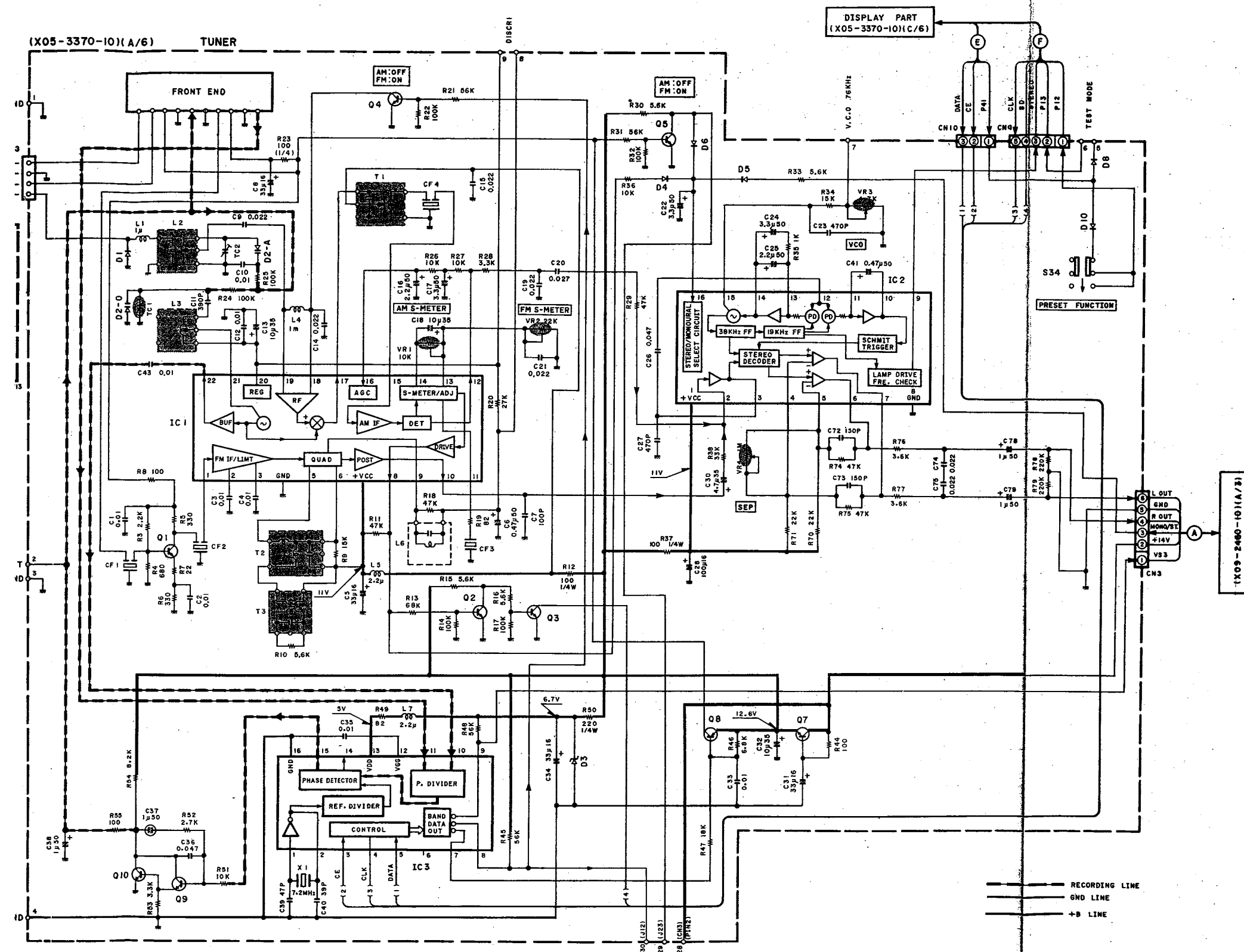
TRIO-KENWOOD FRANCE S.A.  
Hi-Fi-VIDEO-CAR Hi-Fi  
13, Boulevard Ney, 75018 Paris, France

TRIO-KENWOOD U.K. LTD.  
17 Bristol Road, The Metropolitan Centre, Greenford, Middx. UB6 8UP England

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KENWOOD & LEE ELECTRONICS, LTD.  
Wang Kee Building, 5th Floor, 34-37, Connaught Road, Central, Hong Kong





X09-2460-10 (A/3)

Q37	
E	-28.5 V
C	-42.6 V
B	-

X09-2460-10 (C/3)

Q64	
E	3.9 V
C	-
B	-

Q65	
E	6.2 V
C	-
B	3 V

X09-2460-10 (B/3)

Q60	
E	13.5 V
C	-
B	7.9 V

Q62	
E	5.6 V
C	13.5 V
B	-

X05-3370-10 (A/6)

Q7	
E	12.6 V
C	-
B	-

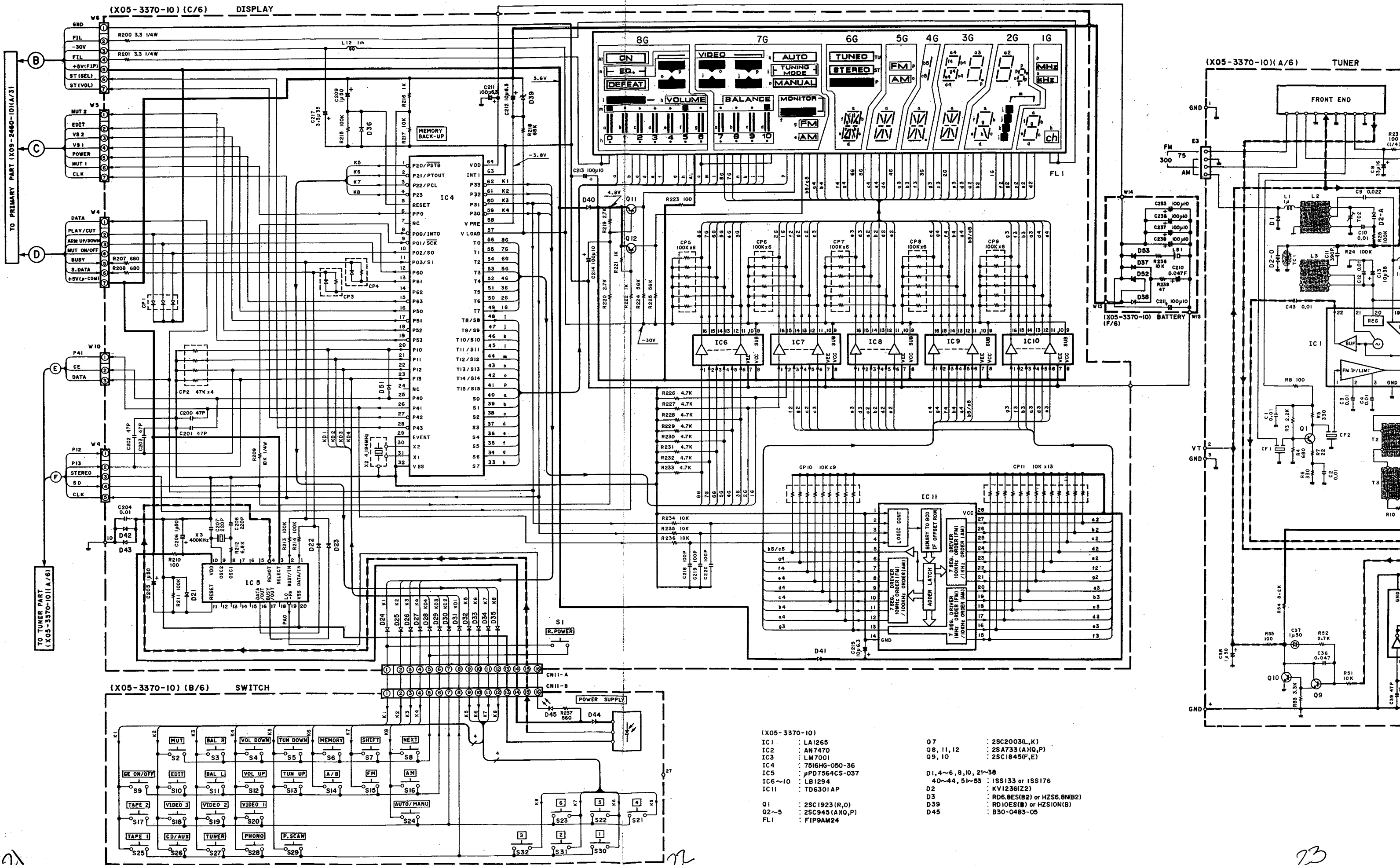
X05-3370-10 (C/6)

Q11	
E	4.8 V
C	-
B	-

**CAUTION:** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).  $\Delta$  Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

- DC voltages are measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.
- Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.
- Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Voltmeter gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U. geringfügig.

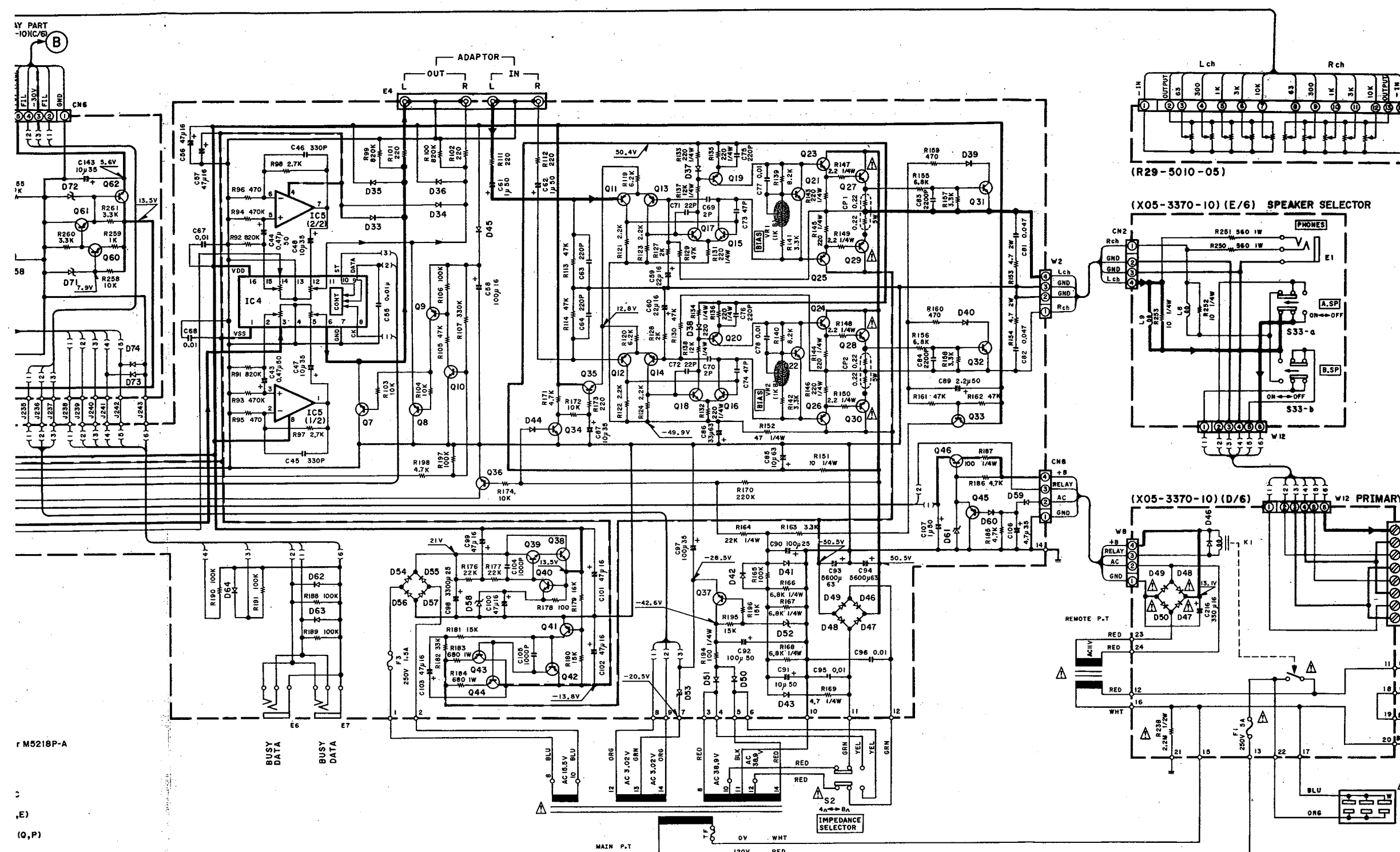
**KR-V76R**



- (X05-3370-10)
- |        |                      |            |                 |
|--------|----------------------|------------|-----------------|
| IC1    | : LA1265             | Q7         | : 2SC2003(L,K)  |
| IC2    | : AN7470             | Q8, 11, 12 | : 2SA733(A,Q,P) |
| IC3    | : LM7001             | Q9, 10     | : 2SC1845(F,E)  |
| IC4    | : 7516HG-050-36      |            |                 |
| IC5    | : $\mu$ PD7564CS-037 |            |                 |
| IC6~10 | : LB1294             |            |                 |
| IC11   | : TD6301 AP          |            |                 |
| Q1     | : 2SC1923(R,O)       |            |                 |
| Q2~5   | : 2SC945(A,Q,P)      |            |                 |
| FL1    | : FIP9AM24           |            |                 |
- D1, 4~6, 8, 10, 21~38  
40~44, 51~53 : 1SS133 or 1SS176  
D2 : KV1236(Z2)  
D3 : RD6.8ES(B2) or HZS6.8N(B2)  
D39 : RD10ES(B) or HZS10N(B)  
D45 : B30-0483-05

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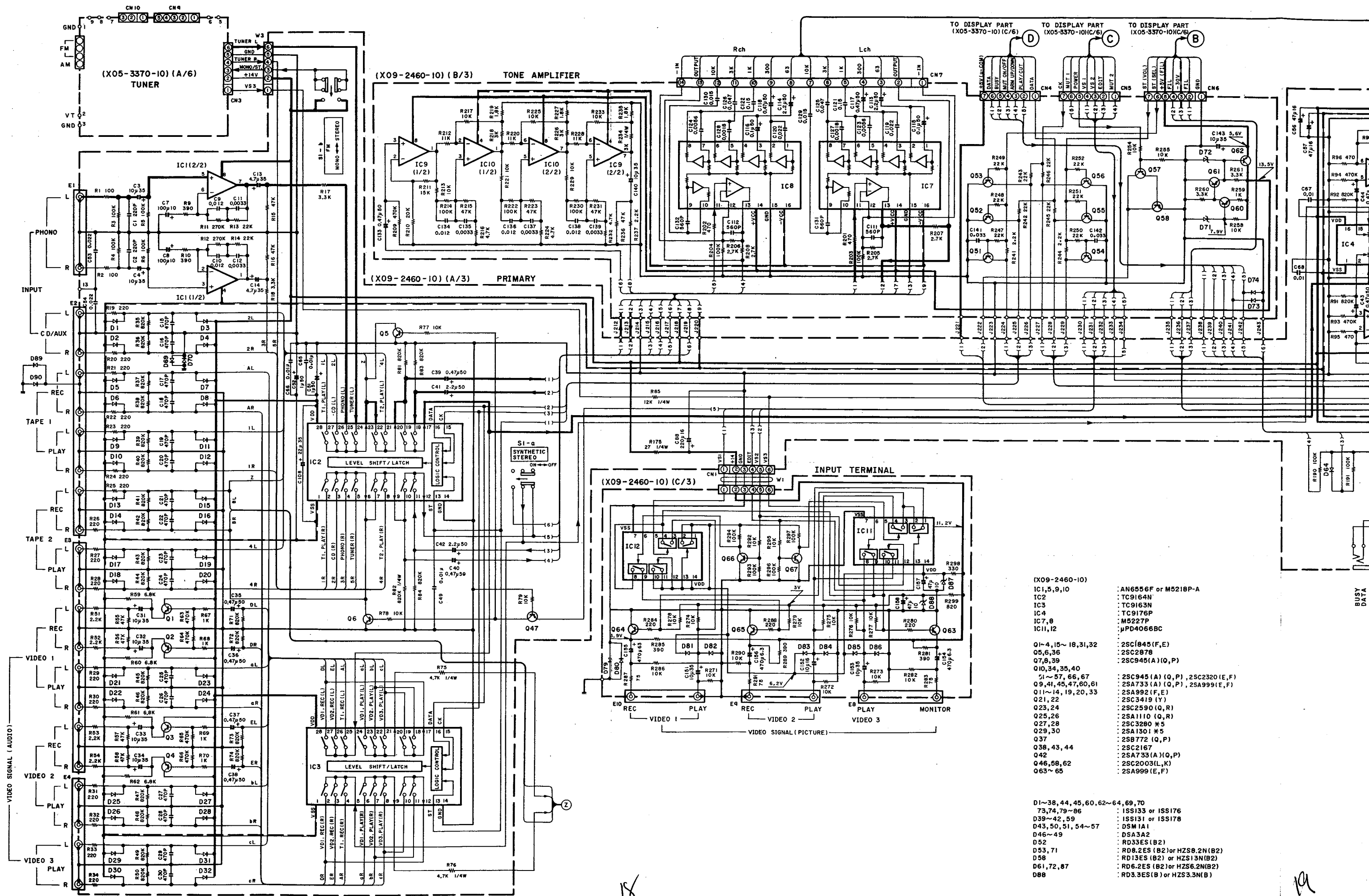
23



- |  |   |  |
|--|---|--|
| 2SA733(A)<br>2SA992<br>2SA999<br>2SC1845<br>2SC1923<br>2SC2003<br>2SC2320<br>2SC2878<br>2SC945(A)  | 2SK439<br>TD6301AP<br>UPD4066BC<br>LB1294<br>LM7001<br>UPD7564CS-037<br>AN7470<br>TC9176P | M5227P<br>AN6556F<br>M5218P-A<br>M50461-057SP<br>7516HG-050-36<br>TC9163N<br>TC9164N<br>LA1265 |
| 2SA1110<br>2SB772<br>2SC2590<br>2SC2167<br>2SC3391<br>2SC3494<br>2SC3419<br>2SA1301*5<br>2SC3280*5 |   |  |

**CAUTION:** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

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- Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.
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- (X09-2460-10)
- IC1,5,9,10 : AN6556F or M5218P-A  
 IC2 : TC9164N  
 IC3 : TC9163N  
 IC4 : TC9176P  
 IC7,8 : M5227P  
 IC11,12 :  $\mu$ PD4066BC
- Q1~4,15~18,31,32 : 2SC845(F,E)  
 Q5,6,36 : 2SC2878  
 Q7,8,39 : 2SC945(A)(Q,P)  
 Q10,34,35,40 : 2SC945(A)(Q,P), 2SC2320(E,F)  
 Q1~57,66,67 : 2SA733(A)(Q,P), 2SA999(E,F)  
 Q9,41,45,47,60,61 : 2SA992(F,E)  
 Q11~14,19,20,33 : 2SC3419(Y)  
 Q21,22 : 2SC2590(Q,R)  
 Q23,24 : 2SA1110(Q,R)  
 Q25,26 : 2SC3280 \*5  
 Q27,28 : 2SA1301 \*5  
 Q29,30 : 2SB772(Q,P)  
 Q37 : 2SC2167  
 Q38,43,44 : 2SA733(A)(Q,P)  
 Q42 : 2SC2003(L,K)  
 Q46,58,62 : 2SA999(E,F)  
 Q63~65
- D1~38,44,45,60,62~64,69,70 : ISS133 or ISS176  
 D39~42,59 : ISS131 or ISS178  
 D43,50,51,54~57 : DSM1A1  
 D46~49 : DSA3A2  
 D52 : RD33ES(B2)  
 D53,71 : RD8,2ES(B2) or HZS8,2N(B2)  
 D58 : RD13ES(B2) or HZS13N(B2)  
 D61,72,87 : RD6,2ES(B2) or HZS6,2N(B2)  
 D88 : RD3,3ES(B) or HZS3,3N(B)

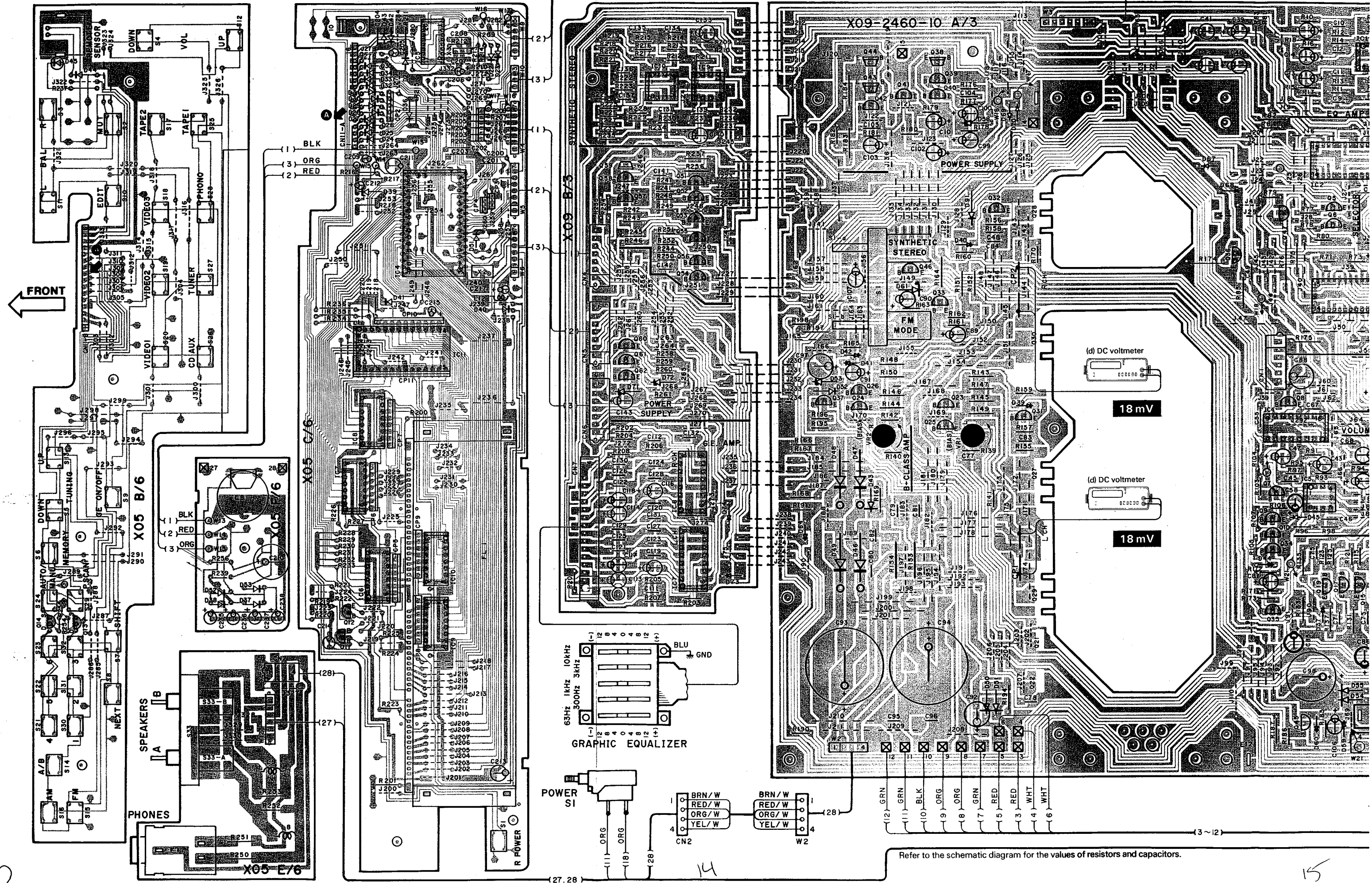
18

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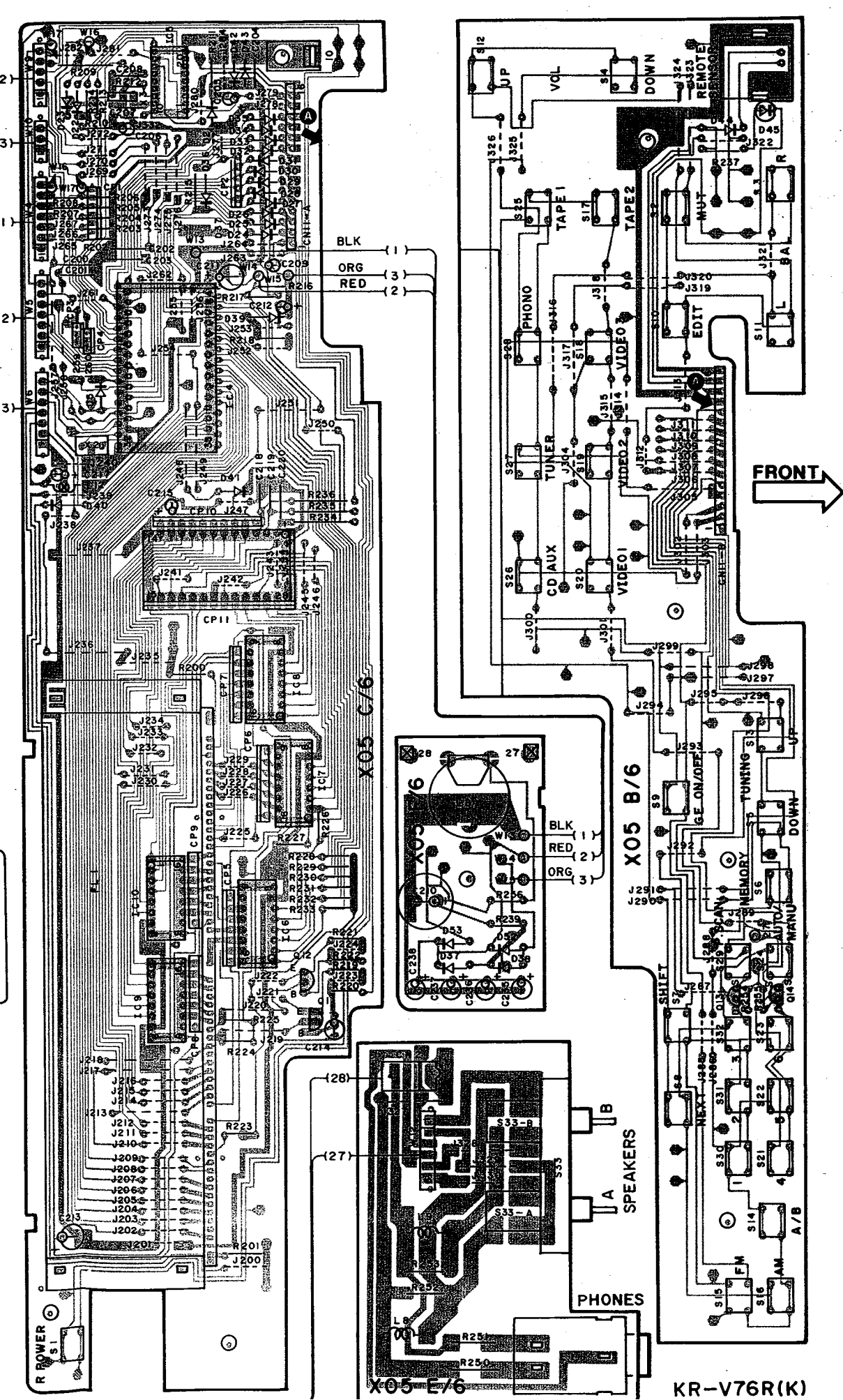
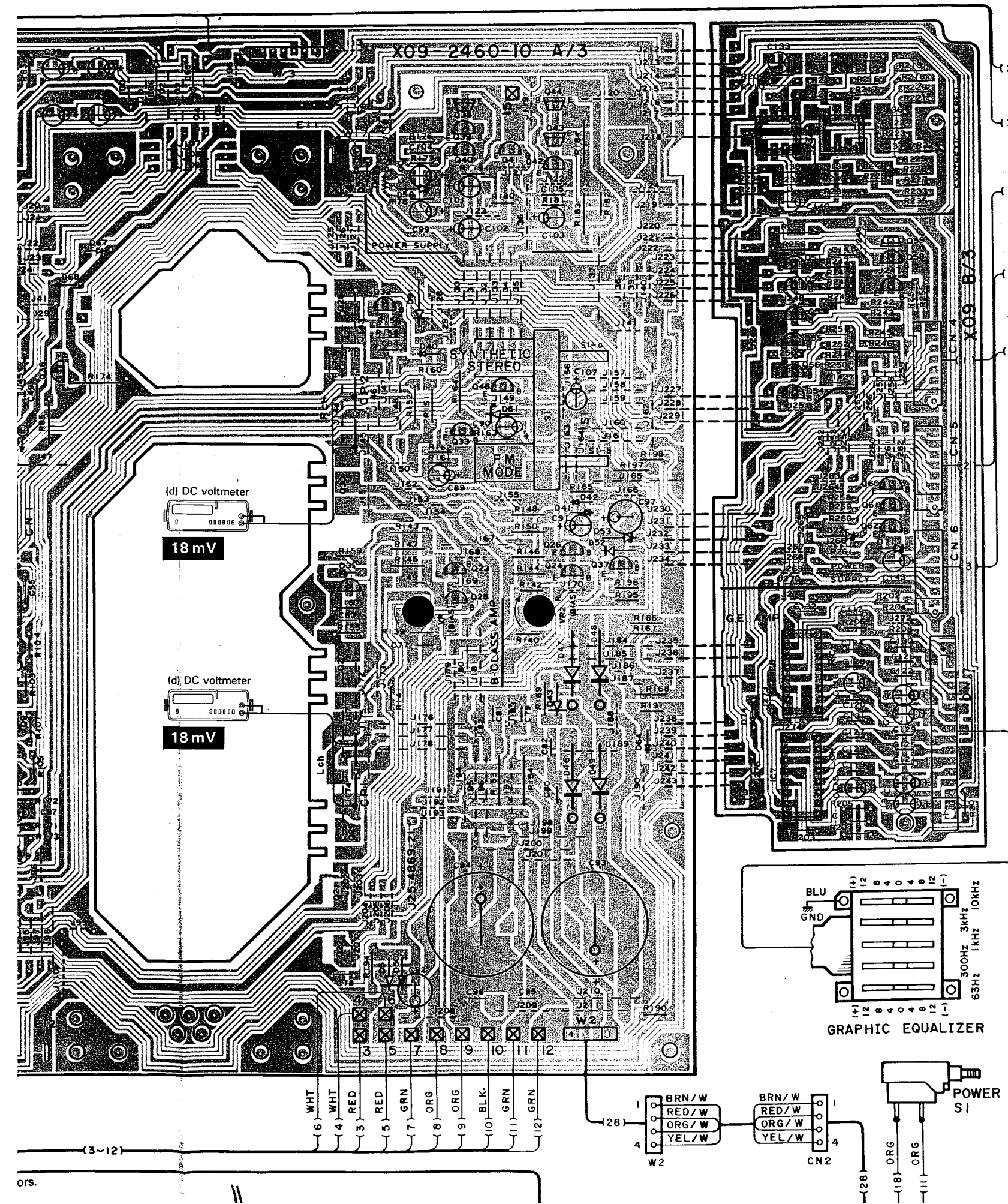




### PC BOARD (Foil side view)







FRONT

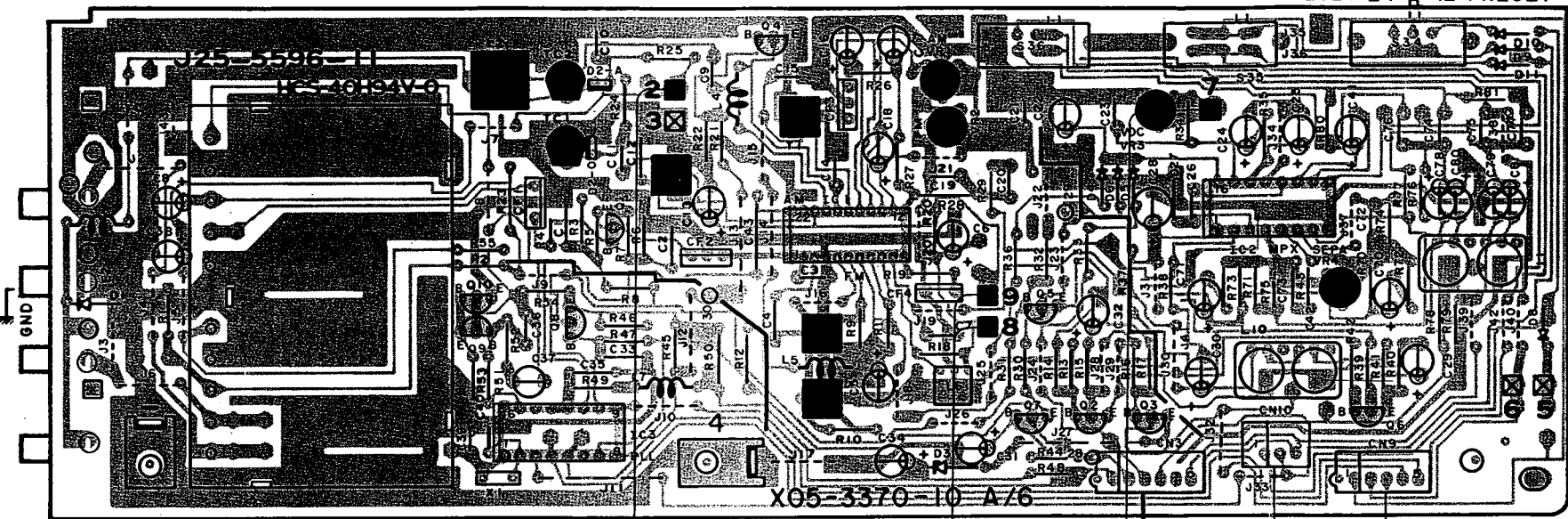
12

# PC BOARD (Component side view)

PRESET 24 12 PRESET STATION NAME AND

(1-3)

ANTENNA  
FM 750 AM  
FM 3000



(c) DC voltmeter

1.5 V  
8.0 V

(a) DC voltmeter

0 V

AC voltmeter

(b) VCO: 76.00 kHz  
Frequency counter

6 BLU/W  
6 GRN/W  
6 YEL/W  
6 ORG/W  
6 RED/W  
6 BRN/W

6 BRN/W  
6 RED/W  
6 ORG/W  
6 YEL/W  
6 GRN/W  
6 BLU/W

6 BRN/W  
6 RED/W  
6 ORG/W  
6 YEL/W  
6 GRN/W  
6 BLU/W

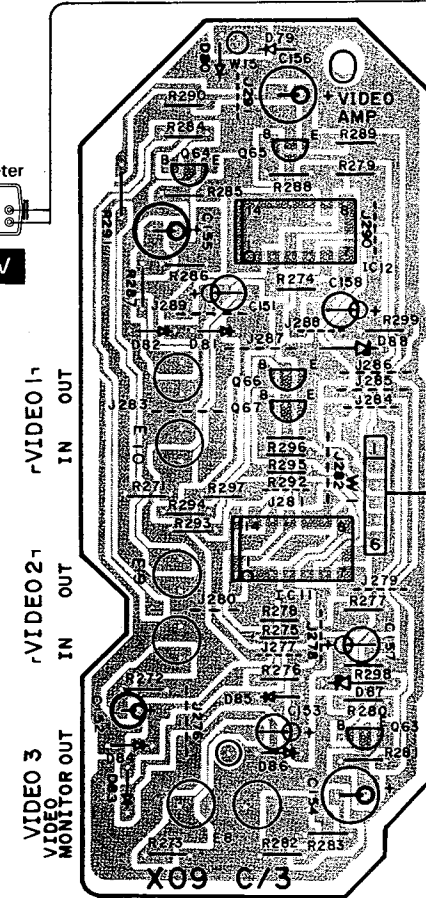
6 BRN/W  
6 RED/W  
6 ORG/W  
6 YEL/W  
6 GRN/W  
6 BLU/W

6 BRN/W  
6 RED/W  
6 ORG/W  
6 YEL/W  
6 GRN/W  
6 BLU/W

6 BRN/W  
6 RED/W  
6 ORG/W  
6 YEL/W  
6 GRN/W  
6 BLU/W

6 BRN/W  
6 RED/W  
6 ORG/W  
6 YEL/W  
6 GRN/W  
6 BLU/W

6 BRN/W  
6 RED/W  
6 ORG/W  
6 YEL/W  
6 GRN/W  
6 BLU/W



ORG

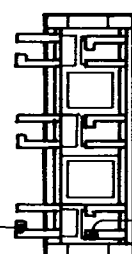
SPEAKERS  
+ -

6 BRN/W  
6 RED/W  
6 ORG/W  
6 YEL/W  
6 GRN/W  
6 BLU/W

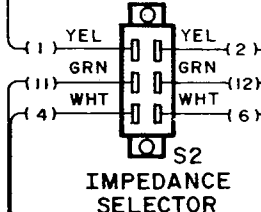
6 BRN/W  
6 RED/W  
6 ORG/W  
6 YEL/W  
6 GRN/W  
6 BLU/W

6 BRN/W  
6 RED/W  
6 ORG/W  
6 YEL/W  
6 GRN/W  
6 BLU/W

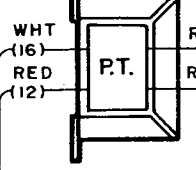
6 BRN/W  
6 RED/W  
6 ORG/W  
6 YEL/W  
6 GRN/W  
6 BLU/W



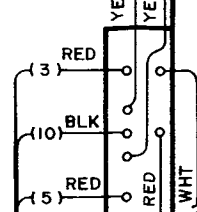
AC120V 60Hz  
SWITCHED TOTAL  
200W MAX.



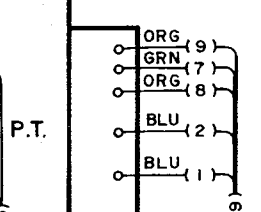
S2  
IMPEDANCE  
SELECTOR



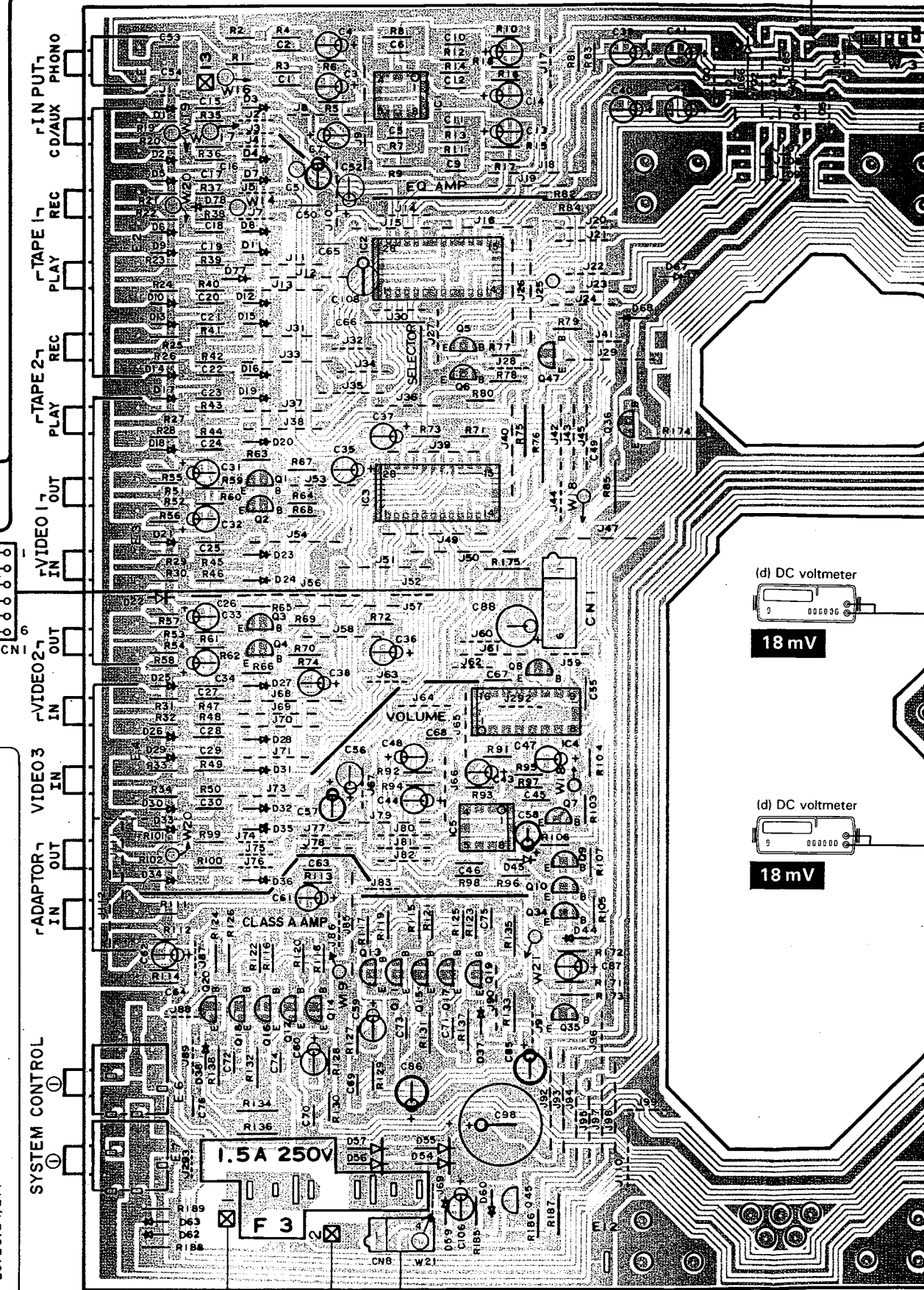
P.T.



P.T.



P.T.



(d) DC voltmeter

18 mV

(d) DC voltmeter

18 mV

Refer to the schematic diagram for the values of resistors and capacitors.